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## (54) ROUTING METHOD AND ROUTER DEVICE FOR RADIO NETWORK

### (57) Abstract:

**PROBLEM TO BE SOLVED:** To transmit message data even when the opposite station is off-line and to provide a service when a self-station intends to be off-line in a radio network such as an ad hoc radio network.

**SOLUTION:** When its own station intends to be off-line, the self-station selects a proxy radio station to be a proxy for the self-station from an MGLS table on the basis of a prescribed criteria (S142), and transmits to the proxy radio station a proxy request signal for requesting the proxy radio station to be a proxy for the self-station (S145). When the self-station receives a proxy request signal to the self-station, the self-station inserts proxy information showing that the self-station is a proxy radio station for a particular different ratio station in the MGLS

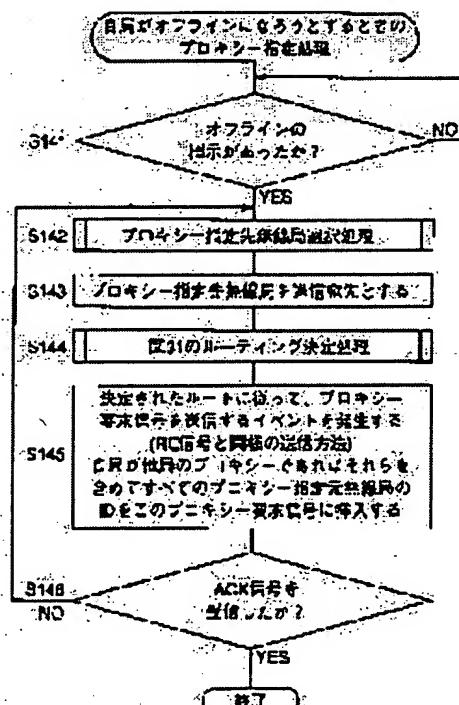


table to update the MGLS table, and also updates the MGLS table of the different radio station by transmitting a prescribed packet signal with the proxy information included in transmitting the packet signal to the different radio station.

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